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## SUBSTITUTE SPECIFICATION

Docket No.: HO-P03227US0

### Antenna Coupler and Holder for Mobile Radio Terminals

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#### CROSS-REFERENCE TO RELATED APPLICATIONS

*5/2/07* [0001] This application is a national stage application of PCT/DE2003/003766 filed November 11, 2003 claiming priority to DE 103 13 498.0 filed March 25, 2003.

#### TECHNICAL FIELD

[0002] The invention relates to an antenna coupler for mobile radio terminals which is provided with an interface for connection of an external antenna, in particular a motor vehicle antenna, and a coupling structure for electromagnetic coupling of RF signals between the antenna coupler and the antenna of a mobile radio terminal which is located in the vicinity of the antenna coupler. The invention also relates to a holder for a mobile radio terminal, which is provided with an interface for connection of an external antenna, in particular of a motor vehicle antenna, and with a coupling structure for electromagnetic coupling of RF signals between the holder and the antenna of a mobile radio terminal which is located in the holder, and in which the coupling structure is arranged in the holder in such a way that, when the mobile radio terminal is inserted, the coupling structure is positioned in the vicinity of the mobile radio terminal.

#### BACKGROUND OF THE INVENTION

[0003] Nowadays, a very wide range of variations and embodiments of mobile radio terminals are available. Some of these mobile radio terminals are not equipped with an antenna socket for connection of an external antenna.

[0004] In order to make it possible to operate these mobile radio terminals with an external antenna despite this, antenna couplers are known which allow electromagnetic coupling of RF signals between the antenna coupler and the antenna of the mobile radio terminal.

[0005] By way of example, DE 10 037 241 A1 describes a holder for a cellular telephone for installation in a passenger compartment of a motor vehicle, which holder is equipped with a coupling antenna. This coupling antenna allows capacitive coupling of the RF signal between the antenna of the mobile radio terminal and the holder for the cellular